

11701 I-30 Bldg 1, Ste 115 - Little Rock, AR 72209 501-455-3233 Fax 501-455-6118

30 December 2014

Jim Fleer Oxford Environmental & Safety, Inc 14348 Nieman Rd. Overland Park, KS 66221

RE: Arkwood Monthly Sampling

SDG Number: 1412262

Enclosed are the results of analyses for samples received by the laboratory on 17-Dec-14 10:09. If you have any questions concerning this report, please feel free to contact me.

Sample Receipt Information:

Custody Seals	~
Containers Correct	
COC/Labels Agree	<u> </u>
Received On Ice	~
Temperature on Receipt	3.0°C

Norma James / Seresa Coins

Sincerely,

Norma James

President

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Jim Fleer Oxford Environmental & Safety, Inc 14348 Nieman Rd. Overland Park, KS 66221

Project: Arkwood Monthly Sampling

Date Received: 17-Dec-14 10:09

ANALYTICAL RESULTS

Lab Number: 1412262-01 Sample Name: Mouth **Date/Time Collected:** 12/16/14 11:00 Water Sample Matrix:

<u>Semivolatiles</u>	<u>Units</u>	<u>Result</u>	Qualifier(s)	Date/Time Analyzed	<u>Batch</u>	<u>Method</u>
Pentachlorophenol	ug/L	45.9		12/22/14 12 24	A412312	8270D, Rev 4, 2007
2,4,6-Tribromophenol [surr]	%	96.5		12/22/14 12:24	A412312	8270D, Rev 4, 2007
2-Fluorophenol [surr]	%	53.8		12/22/14 12:24	A412312	8270D, Rev 4, 2007
Phenol-d5 [surr]	%	30.4		12/22/14 12:24	A412312	8270D, Rev 4, 2007

ANALYTICAL RESULTS

Lab Number: 1412262-02 Sample Name: Weir Date/Time Collected: 12/16/14 10:30 Sample Matrix: Water

<u>Semivolatiles</u>	<u>Units</u>	Result	Qualifier(s)	Date/Time Analyzed	<u>Batch</u>	<u>Method</u>
Pentachlorophenol	ug/L	< 1.00		12/22/14 12:45	A412312	8270D, Rev 4, 2007
2,4,6-Tribromophenol [surr]	%	92.1		12/22/14 12:45	A412312	8270D, Rev 4, 2007
2-Fluorophenol [surr]	%	47.5		12/22/14 12:45	A412312	8270D, Rev 4, 2007
Phenol-d5 [surr]	%	29.1		12/22/14 12:45	A412312	8270D, Rev 4, 2007

Arkansas Analytical

Jim Fleer Oxford Environmental & Safety, Inc 14348 Nieman Rd. Overland Park, KS 66221

Project: Arkwood Monthly Sampling

Date Received: 17-Dec-14 10:09

QUALITY CONTROL RESULTS



Semivolatiles - Quality Control Analyzed: 22-Dec-14 13:06 By: TB

		, <u></u>			-,					
		Reporting		Spike	Source		%REC		RPD	
Analyte	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes
Batch A412312 - EPA 3510C MS										
Blank (A412312-BLK1)				Prepared 8	& Analyzed:	: 22-Dec-14	ŀ			
Pentachlorophenol	ND	1.00	ug/L							
Surrogate: 2,4,6-Tribromophenol	39.6		"	40.0		99.0	55.9-134			
Surrogate: 2-Fluorophenol	23.9		"	40.0		59.8	17.1-87.4			
Surrogate: Phenol-d5	15.3		"	40.0		38.3	14.7-66.9			
LCS (A412312-BS1)	Prepared & Analyzed: 22-Dec-14									
Pentachlorophenol	34.7	1.00	ug/L	40.0		86.8	56-118			
Surrogate: 2,4,6-Tribromophenol	36.0		"	40.0		90.1	55.9-134			
Surrogate: 2-Fluorophenol	22.7		"	40.0		56.9	17.1-87.4			
Surrogate: Phenol-d5	16.1		"	40.0		40.3	14.7-66.9			
Matrix Spike (A412312-MS1)	Source: 1412291-02			Prepared & Analyzed: 22-Dec-14			ļ			
Pentachlorophenol	68.9	2.00	ug/L	80.0	0.00	86.1	59.5-122			
Surrogate: 2,4,6-Tribromophenol	78.3		"	80.0		97.9	55.9-134			
Surrogate: 2-Fluorophenol	25.4		"	80.0		31.7	17.1-87.4			
Surrogate: Phenol-d5	26.7		"	80.0		33.3	14.7-66.9			
Matrix Spike Dup (A412312-MSD1)	Source: 1412291-02		Prepared & Analyzed: 22-Dec-14			ŀ				
Pentachlorophenol	66.2	2.00	ug/L	80.0	0.00	82.7	59.5-122	4.07	8.94	
Surrogate: 2,4,6-Tribromophenol	75.4		"	80.0		94.3	55.9-134			
Surrogate: 2-Fluorophenol	22.2		"	80.0		27.8	17.1-87.4			
Surrogate: Phenol-d5	26.6		"	80.0		33.3	14.7-66.9			

All Analysis performed according to EPA approved methodology when available:

noma James / Cheresa Coins

SW 846, Revised December, 1996; EPA 600/4-79-020, Revised March, 1983; Standard Methods.

Instrument calibration and quality control samples performed at or above frequency specified in analytical method.

Reviewed by:

Norma James and/or Teresa Coins Technical Director and/or QA Officer



11701 Interstate 30, Bldg. 1, Ste. 115

Little Rock, AR 72209 PHONE: 501-455-3233

CHAIN OF CUSTODY RECORD

FAX: 501-455-6118 CLIENT INFORMATION **Project Description** Preservation Codes: **Turnaround Time** Oxford Environmental & Safety, Inc. Arkwood Monthly Sampling 1 Day (100%) 1. Cool, 4 Degrees Centigrade 4. Thiosulfate for Dechlorination 14348 Nieman Rd. 2. Sulfuric Acid (H2SO4), pH < 2 2 Day (50%) 5. Hydrochloric Acid(HCl) Overland Park KS 66221 Reporting Information 3. Nitric Acid (HNO₃), pH < 2 3 Day (25%) 6. Sodium Hydroxide (NaOH), pH > 12 Telephone: 913-706-3422 5 Day (Routine) TEST PARAMETERS Bottle Type Code Email: ifleer@oxfordeands.com Attn: Jim Fleer Preservative Code G = Glass; P = Plastic GA Bottle Type V = Septum; A = Amber James Fleer Pentachlorophenol (8270D) Arkansas Analytical Work Order Number: Sampler(s) Signature Sampler(s) Printed Field SAMPLE COLLECTION SAMPLE of Date/s **IDENTIFICATION/ DESCRIPTION** Number Time/s Grab Comp Bottles Matrix 12/16/14 11:00 01 X 2 Water Mouth X 12/16/14 10130 Х 02 2 Water Weir X **ONSITE MEASUREMENTS BY Oxford Environmental** pH Temperature DO% 31,8 Mouth 6,82 210.1 Weir SAMPLE CONDITION UPON RECEIPT IN LAB **REMARKS / SAMPLE COMMENTS** Date/Time 2. Received by: (Signature) . Relinquished by: (Signature) Flow Rate - 13, 66 12/16/14 CUSTODY SEALS: O3 Power - 20% 2. CONTAINERS CORRECT: O3 Conc - 00 1.88% 3. COC/LABELS AGREE: O3 Residual - 0,02 4. RECEIVED ON ICE: 3. Relinquished by: (Signature) 4. Received by lab: (Signature) 5. TEMPERATURE ON RECEIPT: 6. TEMPERATURE GUN ID: HHT#2

FOR COMPLETION BY LAB ONLY